

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2004-056922

(43)Date of publication of application : 19.02.2004

(51)Int.Cl.

B60L 11/14
B60K 6/04
B60K 17/04
F02D 29/02

(21)Application number : 2002-211015

(71)Applicant : TOYOTA MOTOR CORP

(22)Date of filing : 19.07.2002

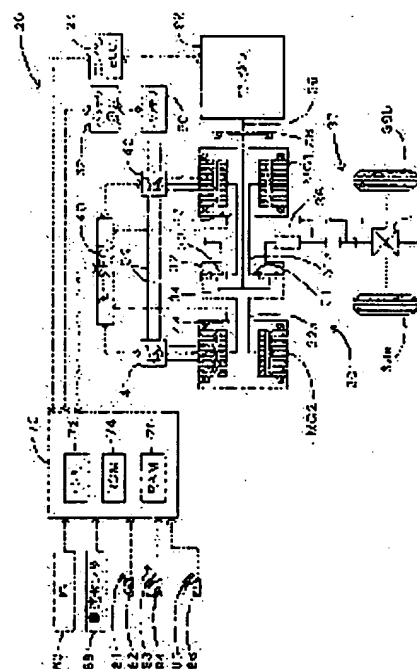
(72)Inventor : UECHI KENSUKE

(54) POWER OUTPUT APPARATUS AND VEHICLE EQUIPPED THEREWITH

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain electric power sufficient for charging a storage means even in driving a drive shaft so as to be reversely rotated and for outputting torque high enough to drive the drive shaft so as to be reversely rotated, in a power output apparatus for mechanically outputting a part of power outputted from an internal combustion engine to the drive shaft.

SOLUTION: At the time of reverse driving, a prescribed charging torque is set to a target torque of an engine 22, and higher rotational speed is set to the target rotational speed of the engine 22 as the remaining capacity of a battery 50 becomes smaller when the battery 50 needs. When the output torque of the engine 22 is the same, the characteristic of an epicyclic gear mechanism makes the torque working on a ring gear shaft 32a based on the output torque of the engine 22 the same, so that the rotational speed of the engine 22 is increased. Thus, the amount of power generation with a motor MG1 is increased to charge the battery 50.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office